

10074-G5, Myc inhibitor

Catalog	Unit
TBI5627-5MG	5 mg
TBI5627-25MG	25 mg

Product Details

Formal Name: 7-Nitro-N-(2-phenylphenyl)-2,1,3-benzoxadiazol-4-amine

Molecular Formula: C₁₈H₁₂N₄O₃

Formula Weight: 332.30

CAS Number: 413611-93-5

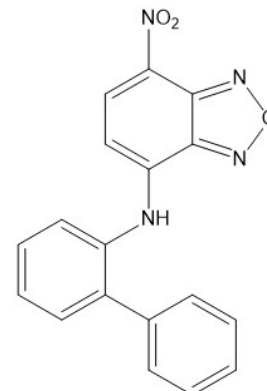
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (40 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Myc inhibitor

Functions

Inhibits c-Myc by disrupting c-Myc/Max heterodimer formation and inhibiting its transcriptional activity. 10074-G5 binds to the c-Myc bHLHZip domain with K_d=2.8 μM. It was cytotoxic in c-Myc-overexpressing cell lines (IC₅₀s = 13 to 15 μM) but was not active in vivo due to rapid metabolism. 10074-G5 is a useful tool to probe for involvement of c-Myc involvement in cellular processes. Binds to and sequesters the intrinsically disordered amyloid-β (Aβ) in its monomeric soluble state and rescues a *C. elegans* model of Aβ-associated toxicity.

Application Procedures

First dissolved in DMSO (40 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.